

Joint behavior of longitudinal electromagnetic waves and scalar gravitational disturbances in the cosmological plasma with allowance for electron-photon collisions

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Abstract

The electric charge density induced by scalar gravitational perturbations in the radiation-dominated stage of the expansion of the universe is calculated on the basis of an investigation of the combined system of Einstein, Maxwell, and kinetic equations for a cosmological plasma with a model collision integral. © 1992 Plenum Publishing Corporation.

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